

CLAIM AMENDMENTS

Claim Amendment Summary

Claims pending

- Before this Amendment: Claims 1-9, 30-45 and 55-59.
- After this Amendment: Claims 1-7, 9, 30-33, 35-40, 42-45, 55-56 and 58-59.

Canceled claims: Claims 8, 10-29, 34, 41, 48-54 and 57.

Amended claims: Claims 1, 9, 30, 35, 44-45, 55 and 59.

New claims: None.

Claims:

1. (Currently Amended) A method comprising:

utilizing one or more computers to split ~~splitting~~ a scene into one or more coherent layers, wherein:

each coherent layer of the scene has a corresponding plane equation to represent a local geometry of that coherent layer; and

the one or more coherent layers in combination represent a single plane of the scene;

propagating boundaries of the coherent layers across a plurality of frames corresponding to the scene; [[and]]

refining the splitting to present a virtual view of the scene; and

rendering the coherent layers with a corresponding background layer to present the virtual view of the scene, wherein the background layer is provided by combining a plurality of under-segmented regions.

2. (Original) A method as recited in claim 1, wherein the virtual view of the scene is substantially free from aliasing.

3. (Original) A method as recited in claim 1, wherein each of the coherent layers has a corresponding background layer.

4. **(Original)** A method as recited in claim 1, wherein the plurality of frames correspond to different images of the scene.

5. **(Original)** A method as recited in claim 1, wherein the refining is initiated by a user.

6. **(Original)** A method as recited in claim 1, wherein each layer of the scene has a corresponding plane equation to represent a local geometry of that layer.

7. **(Original)** A method as recited in claim 1, further comprising rendering the coherent layers with a corresponding background layer to present the virtual view of the scene.

8. **(Canceled)**

9. **(Currently Amended)** One or more computer-storage media comprising computer executable instructions that, ~~when executed,~~ perform the method as recited in claim 1.

10-29. **(Canceled)**

30. (Currently Amended) A user interface comprising:

a display screen coupled to a computing system including one or more processors and a memory;

a layer pop-up module to allow a user to define one or more coherent layers corresponding to a scene;

a refinement module to refine the coherent layers in real time; [[and]]

a rendering module to render the coherent layers to present a virtual view of the scene; and

a background construction module to provide a background layer corresponding to the coherent layers, wherein the background layer is provided by removing the coherent layers from a key frame corresponding to the scene.

31. (Original) A user interface as recited in claim 30, wherein a plurality of polygons represent boundaries of the coherent layers.

32. (Original) A user interface as recited in claim 30, wherein the virtual view of the scene is substantially free from aliasing.

33. (Original) A user interface as recited in claim 30, further comprising a background construction module to provide a background layer corresponding to the coherent layers.

34. (Canceled)

35. (Currently Amended) A system comprising:

one or more processors configured to execute computer-readable instructions;
a computer storage medium configured to store the computer-readable instructions;

a layer pop-up module to split a scene into one or more coherent layers;

a boundary propagation module to propagate boundaries of the coherent layers across a plurality of frames corresponding to the scene; [[and]]

a refinement module to refine the splitting to present a virtual view of the scene;
and

a rendering module to render the coherent layers with a corresponding background layer to present the virtual view of the scene, wherein the background layer is provided by combining a plurality of under-segmented regions.

36. (Original) A system as recited in claim 35, wherein the virtual view of the scene is substantially free from aliasing.

37. (Original) A system as recited in claim 35, wherein the plurality of frames correspond to different images of the scene.

38. (Original) A system as recited in claim 35, wherein the refinement module is activated by a user.

39. (Original) A system as recited in claim 35, wherein each layer of the scene has a corresponding plane equation to represent a local geometry of that layer.

40. (Original) A system as recited in claim 35, further comprising a rendering module to render the coherent layers with a corresponding background layer to present the virtual view of the scene.

41. (Canceled)

42. (Original) A system as recited in claim 35, further comprising a memory module to store instructions.

43. (Original) A system as recited in claim 35, further comprising one or more processing units to execute a plurality of stored instructions on one or more memory modules coupled to the processors.

44. (Currently Amended) One or more computer-storage media comprising instructions stored thereon that, ~~when executed,~~ direct a machine to perform acts comprising:

splitting a scene into one or more coherent layers, wherein;

each coherent layer of the scene has a corresponding plane equation to represent a local geometry of that coherent layer; and

the one or more coherent layers in combination represent a single plane of the scene;

propagating boundaries of the coherent layers across a plurality of frames corresponding to the scene, wherein the plurality of frames correspond to different images of the scene;

refining the splitting to present a virtual view of the scene, wherein the refining is;

initiated by a user;

allows the user to select at least one of the coherent layers;

allows the user to refine the corresponding plane equation of the selected coherent layer; and

allows the user to inspect and adjust the rendering quality of the selected coherent layer in real time;

rendering the coherent layers with a corresponding background layer to present the virtual view of the scene, wherein the background layer is provided by combining a plurality of under-segmented regions.

45. (Currently Amended) A computer-storage readable media as recited in claim 44, wherein the virtual view of the scene is substantially free from aliasing.

46. (Canceled)

47. (Canceled)

48-54. (Canceled)

55. (Currently Amended) An apparatus comprising:
means for splitting a scene into one or more coherent layers;
means for propagating boundaries of the coherent layers across a plurality of frames corresponding to the scene; [[and]]
means for refining the splitting to present a virtual view of the scene; and
means for rendering the coherent layers with a corresponding background layer to display the virtual view of the scene, wherein the background layer is provided by combining a plurality of under-segmented regions.

56. (Original) An apparatus as recited in claim 55, further comprising means for rendering the coherent layers with a corresponding background layer to present the virtual view of the scene.

57. (Canceled)

58. (Previously Presented) A method as recited in claim 1, wherein the scene represents a set of images.

59. (Currently Amended) A computer-storage ~~readable~~ media as recited in claim 44, wherein the scene represents a set of images.